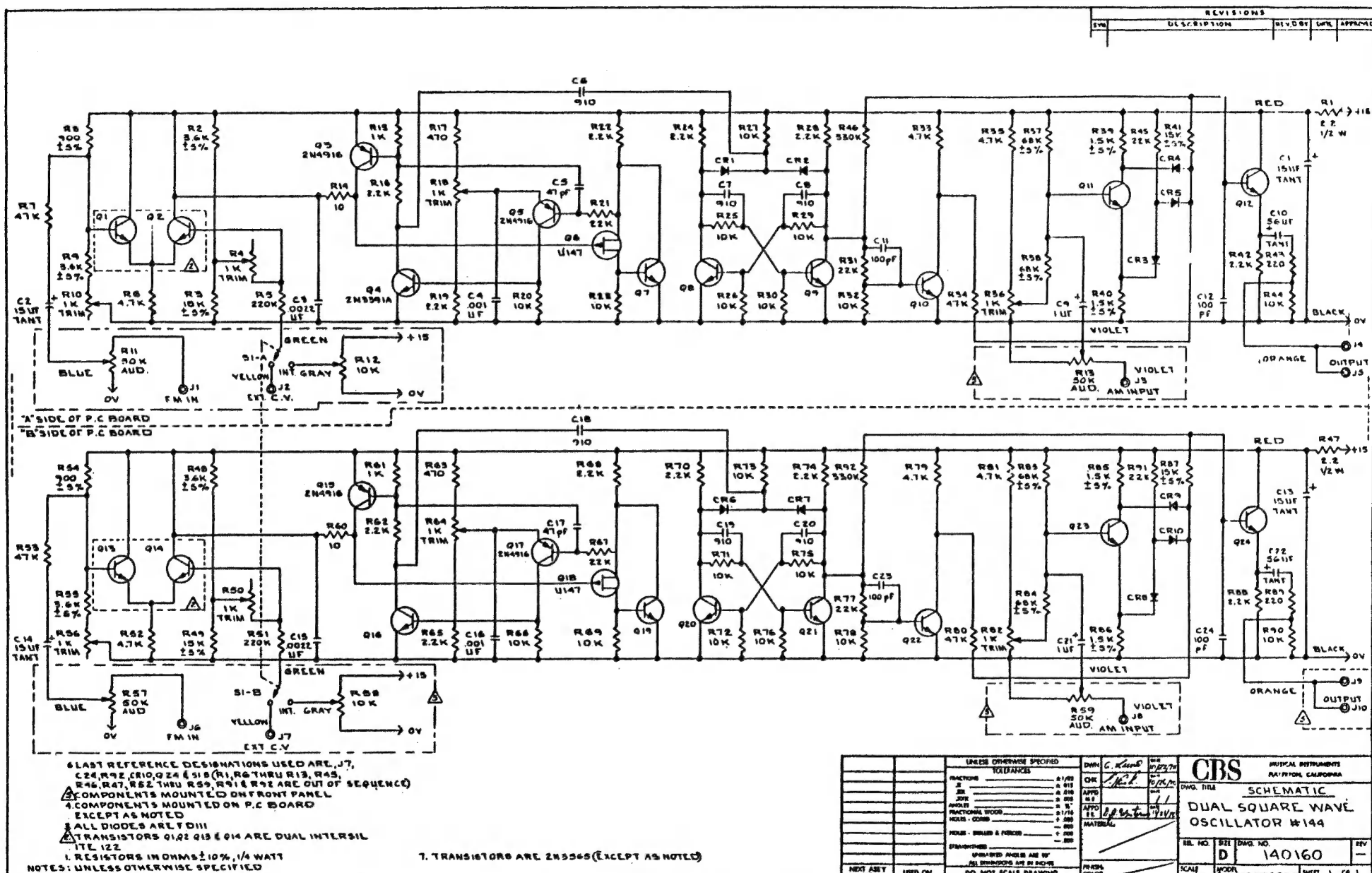
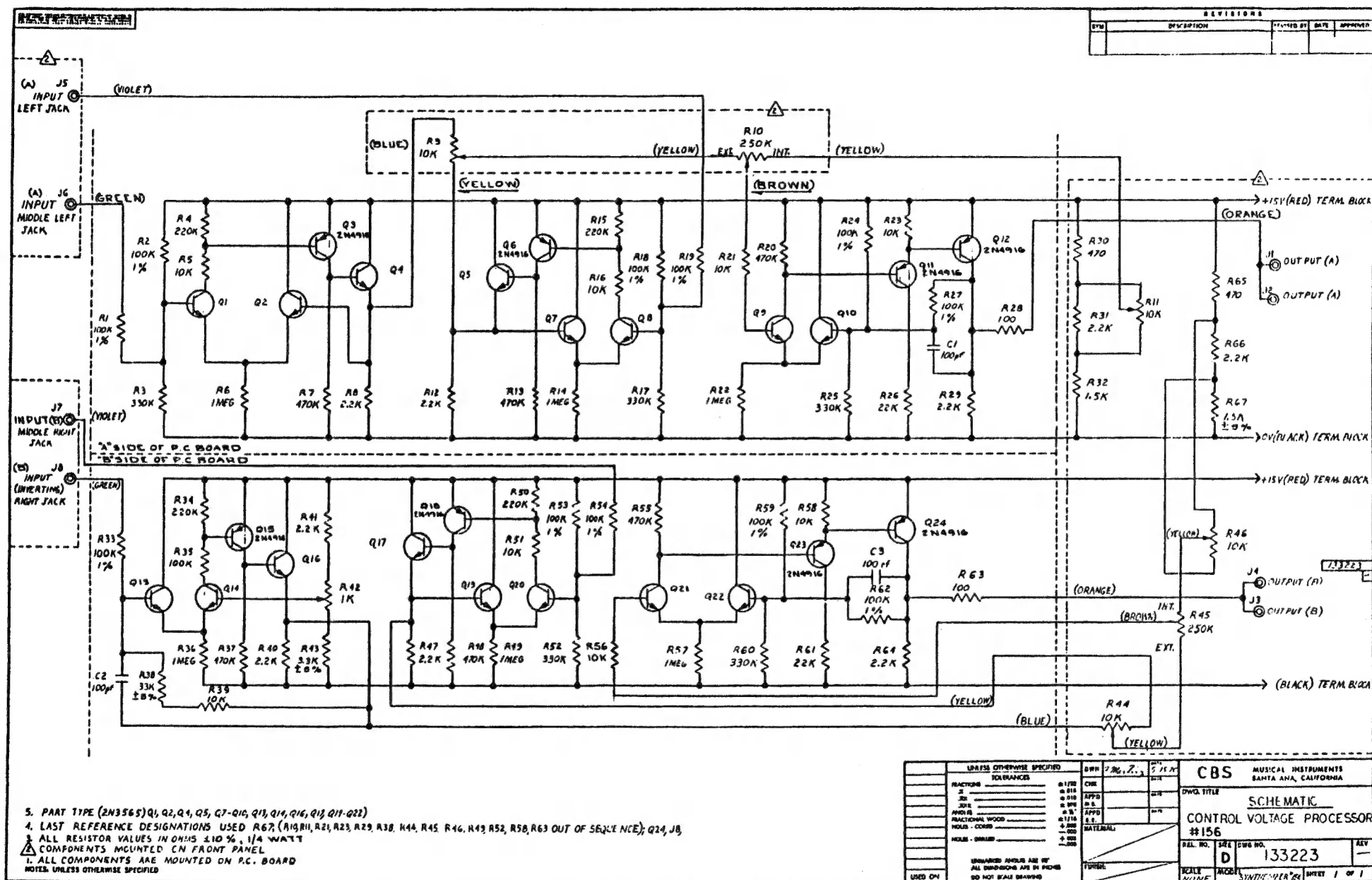


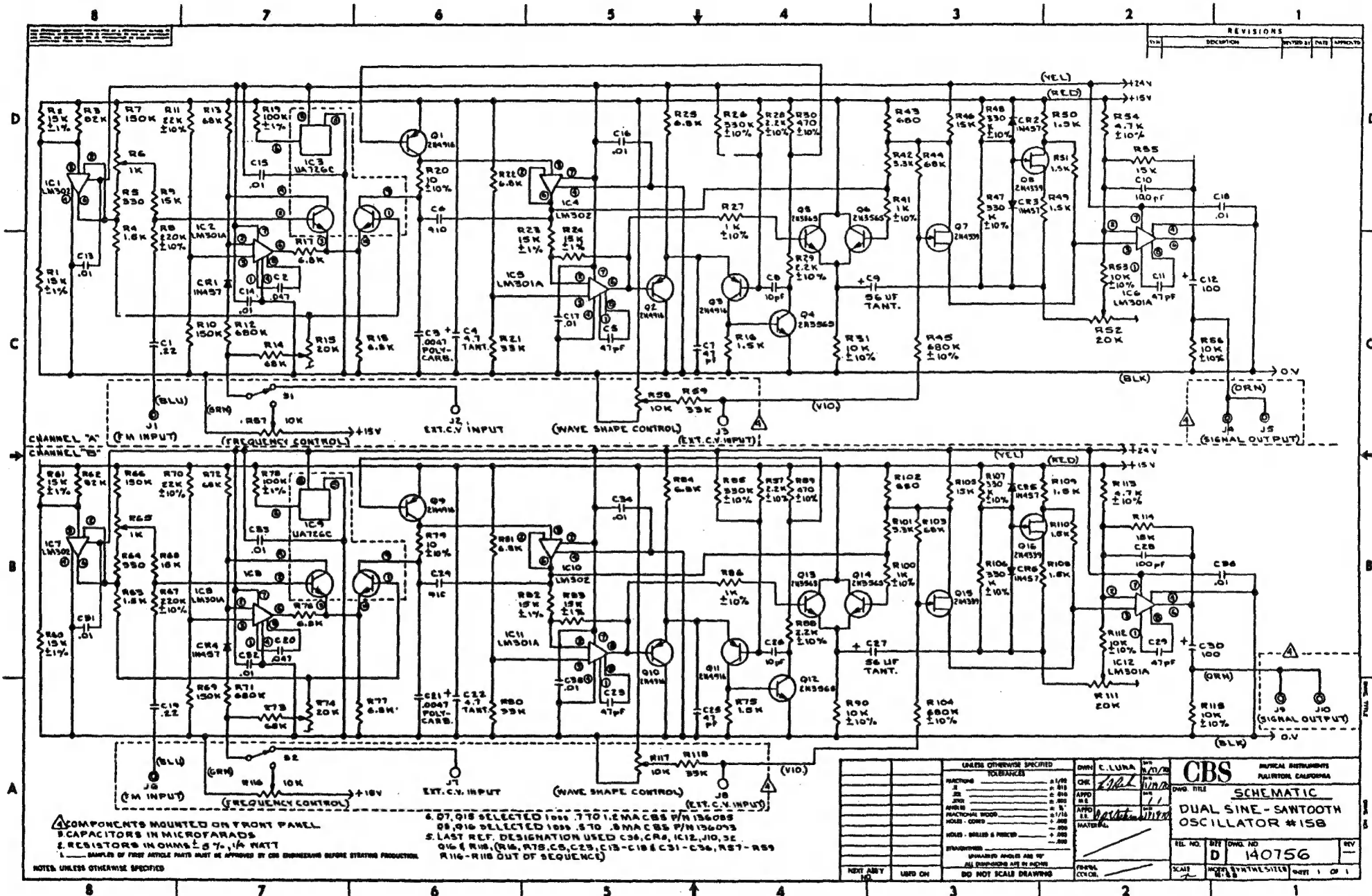
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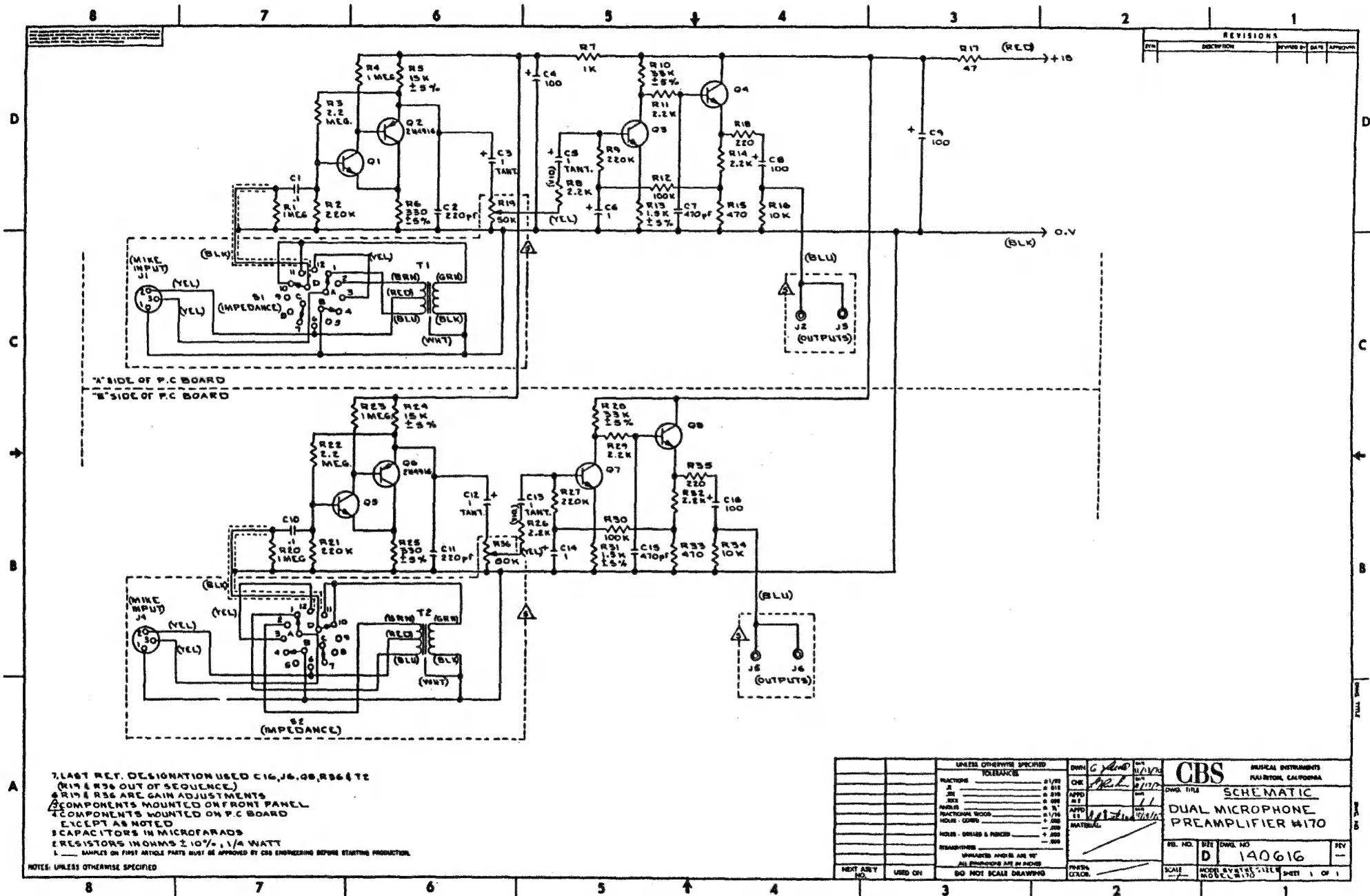
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-1 -2 -3 -4
[O][O][O][O]
YEL-RD-BLK

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 83

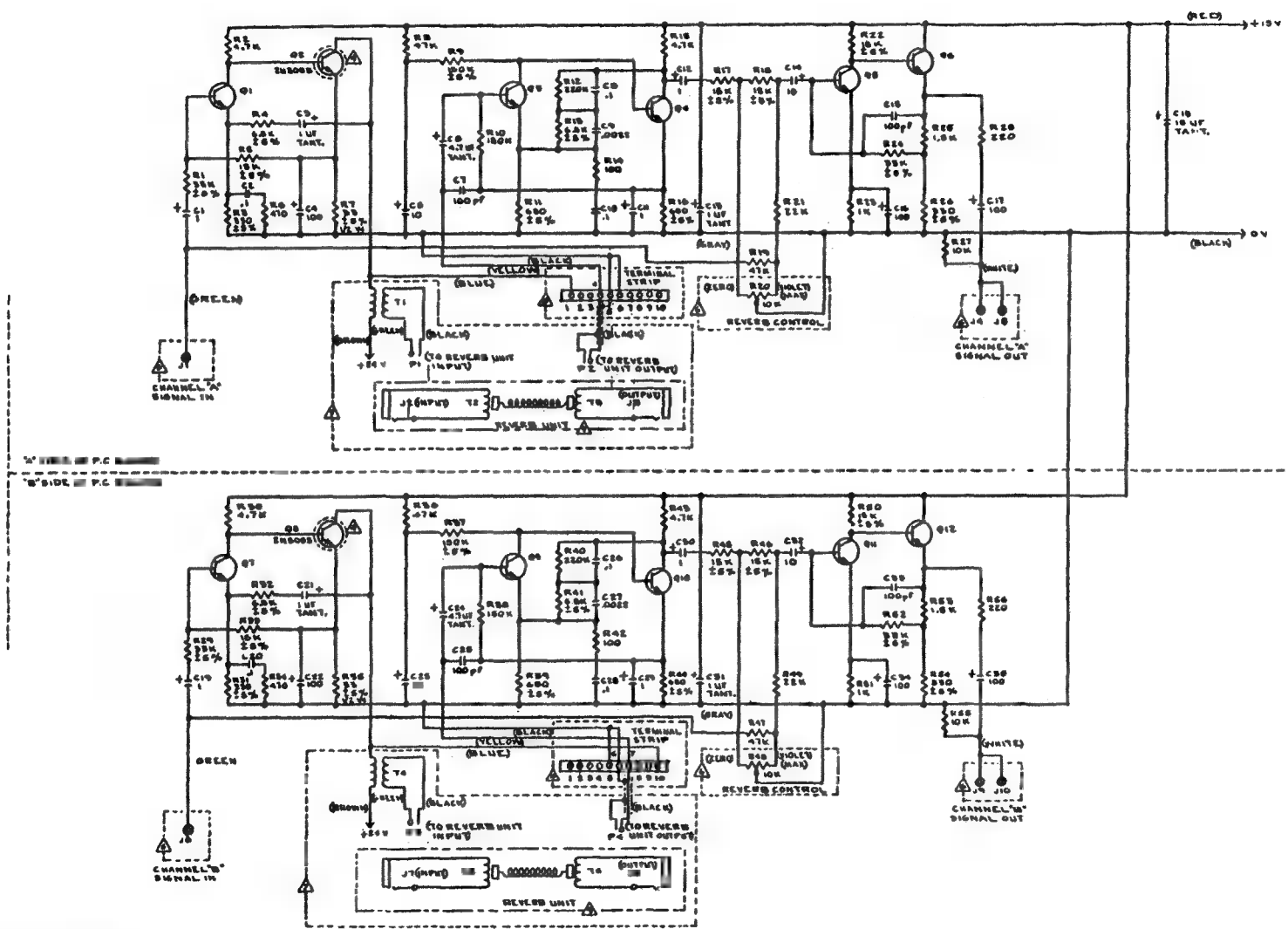








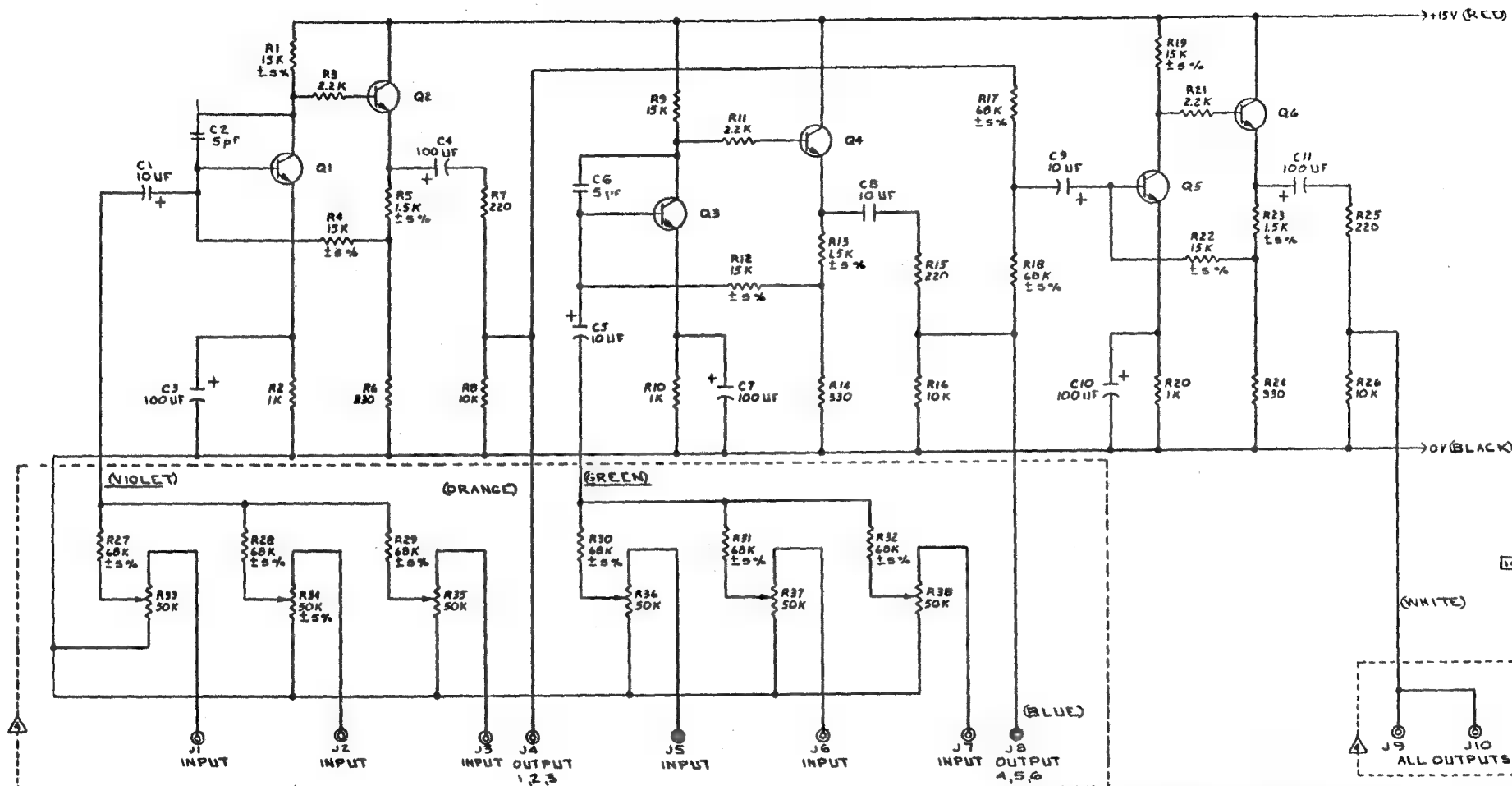
REVISION	DATE	BY	CHK
1	10/1/64	WJ	WJ



- ▲ TERMINAL STRIP MOUNTED ON REVERSE SIDE OF P.C BOARD.
 ▲ Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12 ARE PNP 2N4003.
 ▲ LAST REFERENCE DESIGNATIONS USED ARE Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12.
 ▲ ALL COMPONENTS MOUNTED ON REVERSE SIDE OF P.C BOARD.
 ▲ TRANSISTORS Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12 ARE 2N4003 (REF.) WITH HEAT-SINK CASE FOR WATFIELD 8507.
 ▲ CAPACITORS ARE IN MICROFARADS.
 ▲ RESISTORS IN OHMS 100, 1K, 10K, 100K, 1M.

NOTES: UNLESS OTHERWISE SPECIFIED

DATE OF REVISION		DATE	BY	CHK
10/1/64		10/1/64	WJ	WJ
REVISION		DATE	BY	CHK
1		10/1/64	WJ	WJ
CBS DUAL REVERSATION UNIT W190				
E 140251		10/1/64 140251		

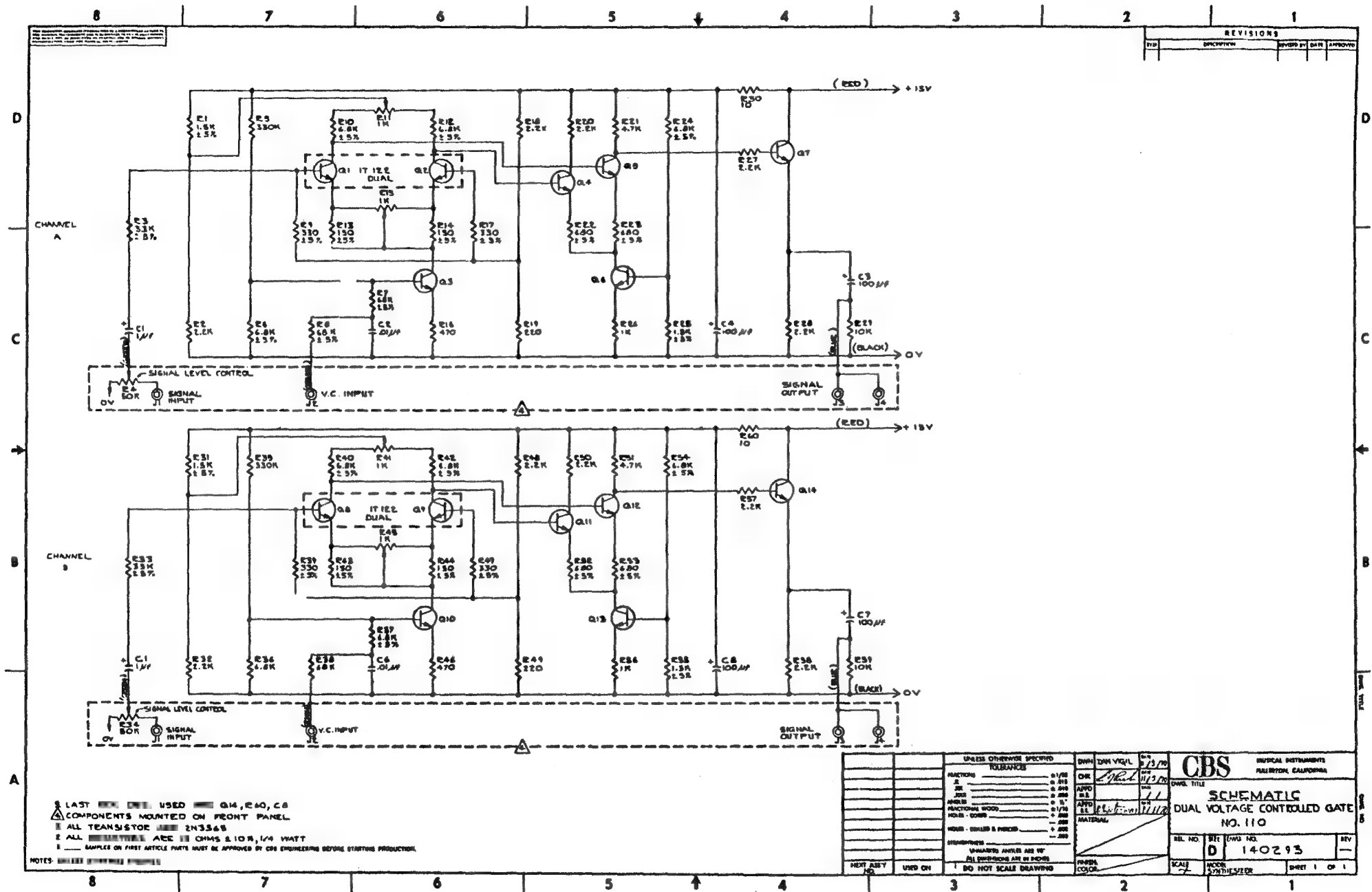


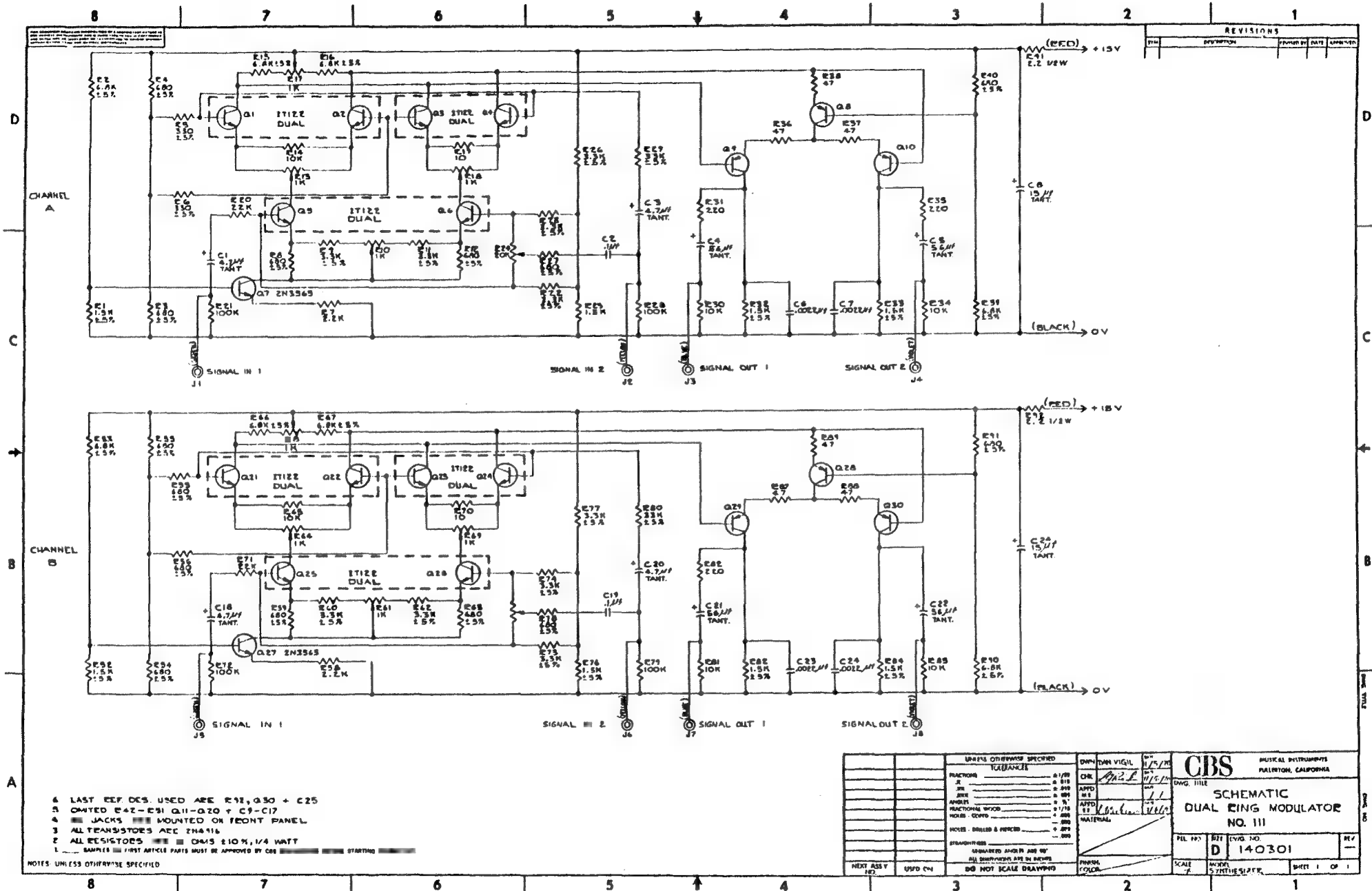
REF. R27 THRU R32 ARE GAIN ADJUSTMENT CHANNELS
 LAST REFERENCE DESIGNATIONS USED ARE
 C11, J10, J6 & R11
 COMPONENTS MOUNTED ON FRONT PANEL
 ALL COMPONENTS MOUNTED ON P.C.
 EXCEPT AS NOTED
 TRANSISTORS ARE 2N3906
 RESISTORS ARE IN OHMS $\pm 10\%$, $1/4W$

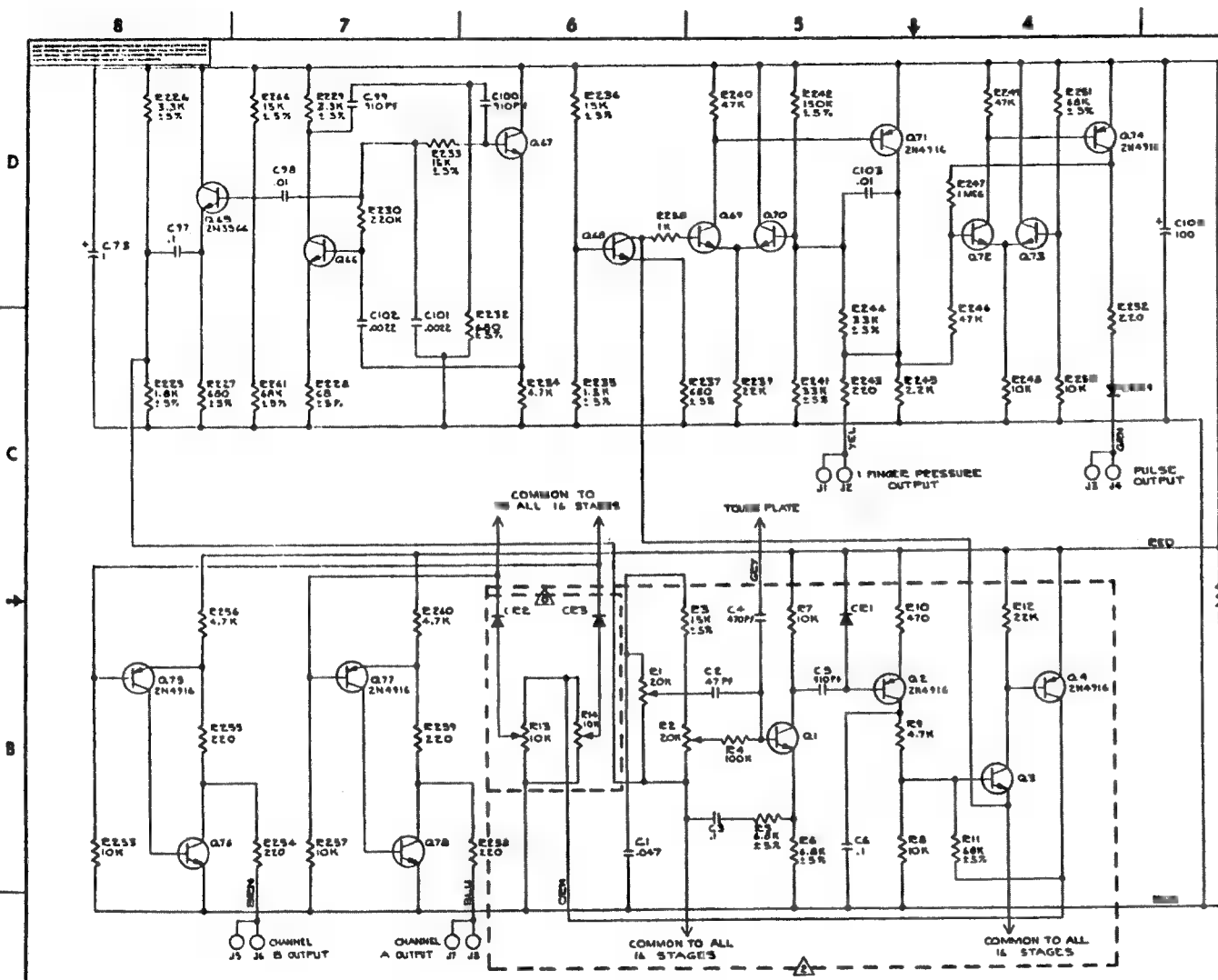
NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED		DATE	BY	REV.	DATE	BY
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REVISIONS	4	11/1/77	11/1/77	4	11/1/77	4
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REVISIONS	100	11/1/77	11/1/77	100	11/1/77	100

C8S		MUSICAL INSTRUMENTS SANTA ANA, CALIFORNIA	
DWG. FILE		SCHEMATIC	
REV. NO.		4106	
REV. NO.		D 140285	
SCALE		AS SHOWN	
SHEET		1 OF 1	







STAGES 1 THRU 16															
RESISTORS															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
R1	15	29	43	57	71	85	99	113	127	141	155	169	183	197	211
R2	16	30	44	58	72	86	100	114	128	142	156	170	184	198	212
R3	17	31	45	59	73	87	101	115	129	143	157	171	185	199	213
R4	18	32	46	60	74	88	102	116	130	144	158	172	186	200	214
R5	19	33	47	61	75	89	103	117	131	145	159	173	187	201	215
R6	20	34	48	62	76	90	104	118	132	146	160	174	188	202	216
R7	21	35	49	63	77	91	105	119	133	147	161	175	189	203	217
R8	22	36	50	64	78	92	106	120	134	148	162	176	190	204	218
R9	23	37	51	65	79	93	107	121	135	149	163	177	191	205	219
R10	24	38	52	66	80	94	108	122	136	150	164	178	192	206	220
R11	25	39	53	67	81	95	109	123	137	151	165	179	193	207	221
R12	26	40	54	68	82	96	110	124	138	152	166	180	194	208	222
R13	27	41	55	69	83	97	111	125	139	153	167	181	195	209	223
R14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224
TRANSISTORS															
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
Q1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61
Q2	6	10	14	18	22	26	30	34	38	42	46	50	54	58	62
Q3	7	11	15	19	23	27	31	35	39	43	47	51	55	59	63
Q4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
CAPACITORS															
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
C1	6	11	16	21	26	31	36	41	46	51	56	61	66	71	76
C2	7	12	17	22	27	32	37	42	47	52	57	62	67	72	77
C3	8	13	18	23	28	33	38	43	48	53	58	63	68	73	78
C4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79
C5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
DIODES															
CE1	CE2	CE3	CE4	CE5	CE6	CE7	CE8	CE9	CE10	CE11	CE12	CE13	CE14	CE15	CE16
CE1	4	7	10	13	16	19	22	25	28	31	34	37	40	43	46
CE2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47
CE3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48

- COMPONENTS ARE MOUNTED ON FRONT PANEL.
- ALL JACKS ARE MOUNTED ON FRONT PANEL.
- ALL DIODES ARE INAS7.
- ALL CAPACITORS ARE IN MICROFARADS.
- ALL TRANSISTORS ARE 2N3845.
- ALL RESISTORS ARE IN OHMS 210% 1/4 WATT.
- THIS STAGE TO BE REPEATED 15 TIMES.
- SAMPLES ON FIRST ARTICLE PARTS MUST BE APPROVED BY CBS ENGINEERING BEFORE STARTING PRODUCTION.
- UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED		OWN DAN VIGIL		CBS		BUREAU INSTRUMENTS	
RELEASE		DATE 11/10/74		DATE 11/10/74		PACIFIC, CALIFORNIA	
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
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FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
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FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
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OUT	1/16	1/8	1/4	1/2	3/4	1	2
FRACCTIONS	1/16	1/8	1/4	1/2	3/4	1	2
IN	1/16	1/8	1/4	1/2	3/4	1	2
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FRACCTIONS	1/16	1/8	1/4	1/2	3/4		

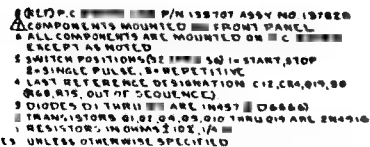


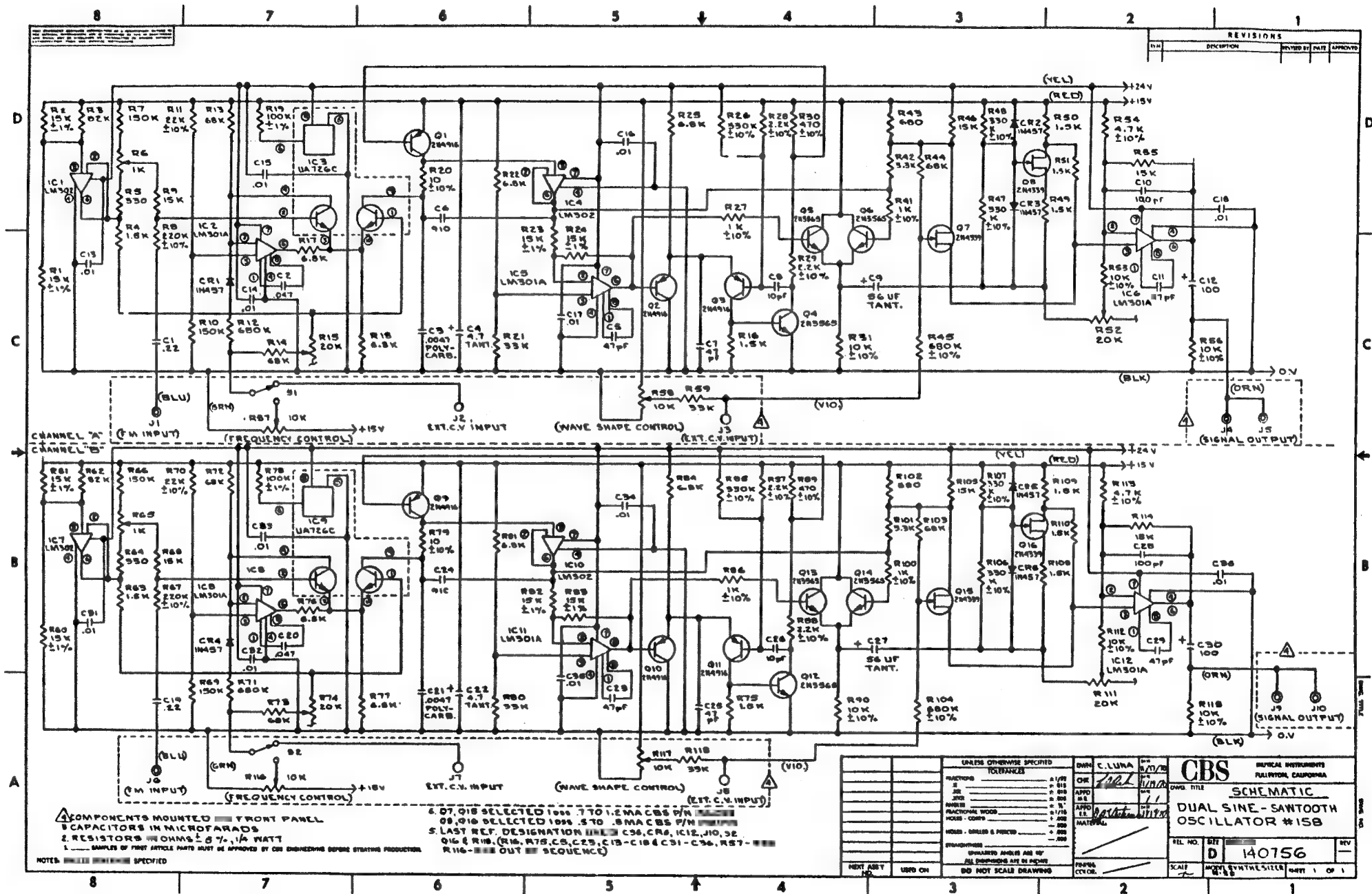
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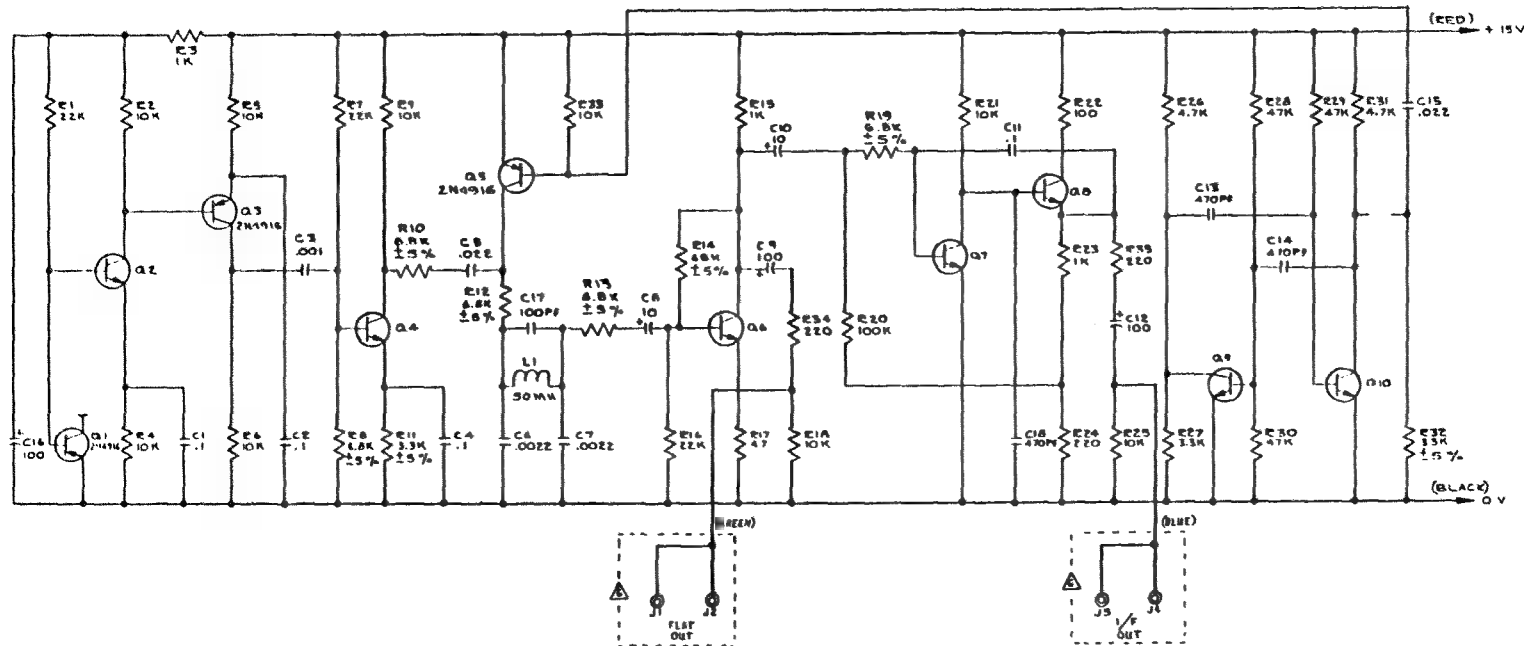
NOTES: UNLESS OTHERWISE SPECIFIED

NEXT AREA	USED ON	DO NOT SCALE DRAWINGS	SCALE	MOORE	INSET 1 OF 1
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REVISIONS				
REV.	DESCRIPTION	REVIEWED BY	DATE	APPROVED BY
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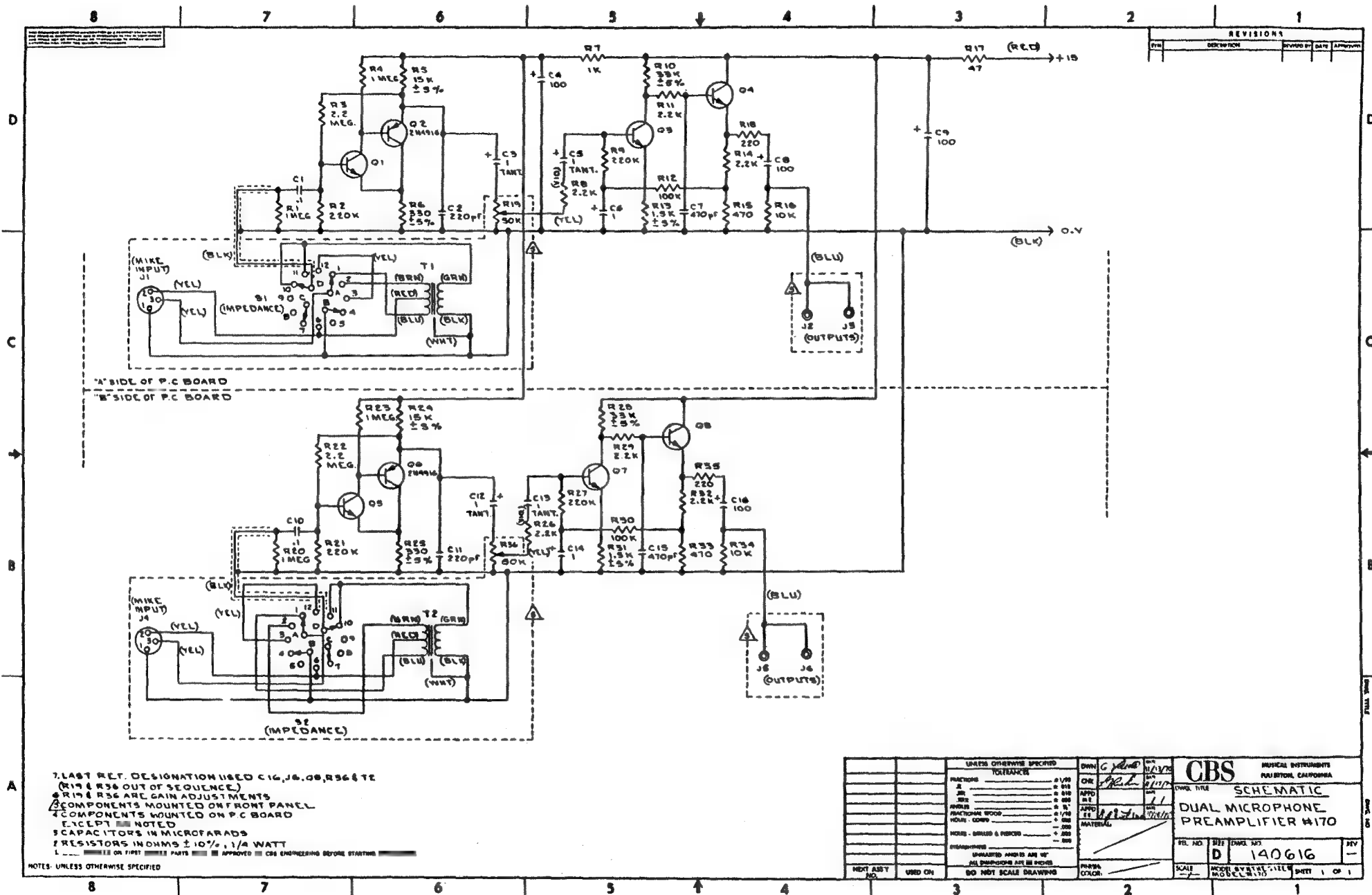
- COMPONENTS MOUNTED ON FRONT PANEL ALL OTHERS ARE MOUNTED ON P.C. BOARD
- LAST REFERENCE DESIGNATION USED C18, L1, Q10, R35
- (C14, C17, C18, R35, R34, R35, OUT OF SEQUENCE)
- ALL RESISTORS ARE IN OHMS $\pm 1\%$ 1/4 W
- ALL CAPACITORS ARE IN MICROFARADS
- ALL TRANSISTORS ARE 2N3565

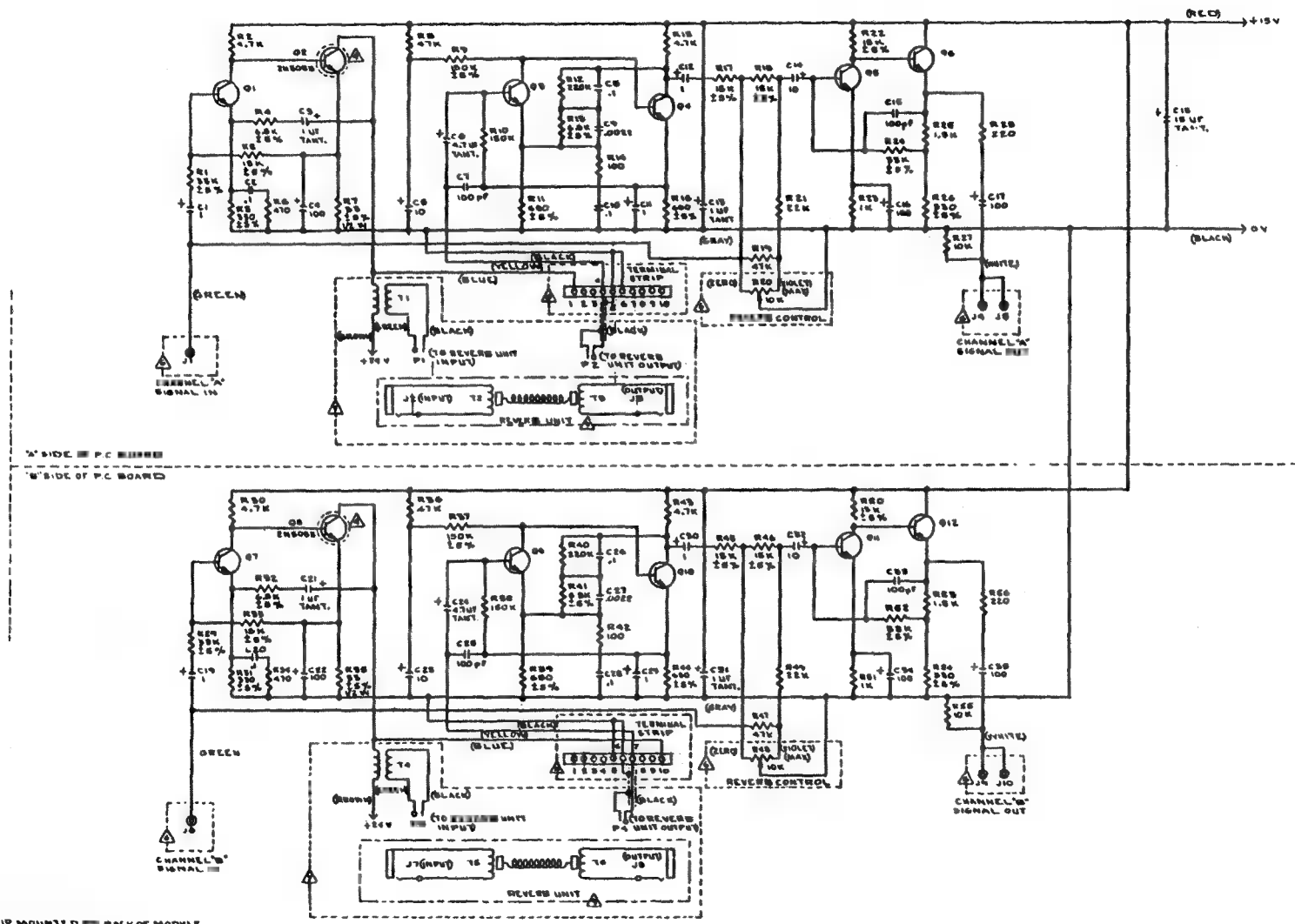
1. SAMPLES ON FIRST PARTS MUST BE OFFERING BY L&S ENGINEERING BEFORE BEGINNING PRODUCTION.

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED		DWG. NO. 140038		DWG. TITLE	
FUNCTIONS		CHK. 2/22		DWG. TITLE	
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J3		APPRO. 2/22		DWG. TITLE	
J4		APPRO. 2/22		DWG. TITLE	
J5		APPRO. 2/22		DWG. TITLE	
J6		APPRO. 2/22		DWG. TITLE	
J7		APPRO. 2/22		DWG. TITLE	
J8		APPRO. 2/22		DWG. TITLE	
J9		APPRO. 2/22		DWG. TITLE	
J10		APPRO. 2/22		DWG. TITLE	
J11		APPRO. 2/22		DWG. TITLE	
J12		APPRO. 2/22		DWG. TITLE	
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J14		APPRO. 2/22		DWG. TITLE	
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J100		APPRO. 2/22		DWG. TITLE	

DWG. NO. 140038		DWG. TITLE	
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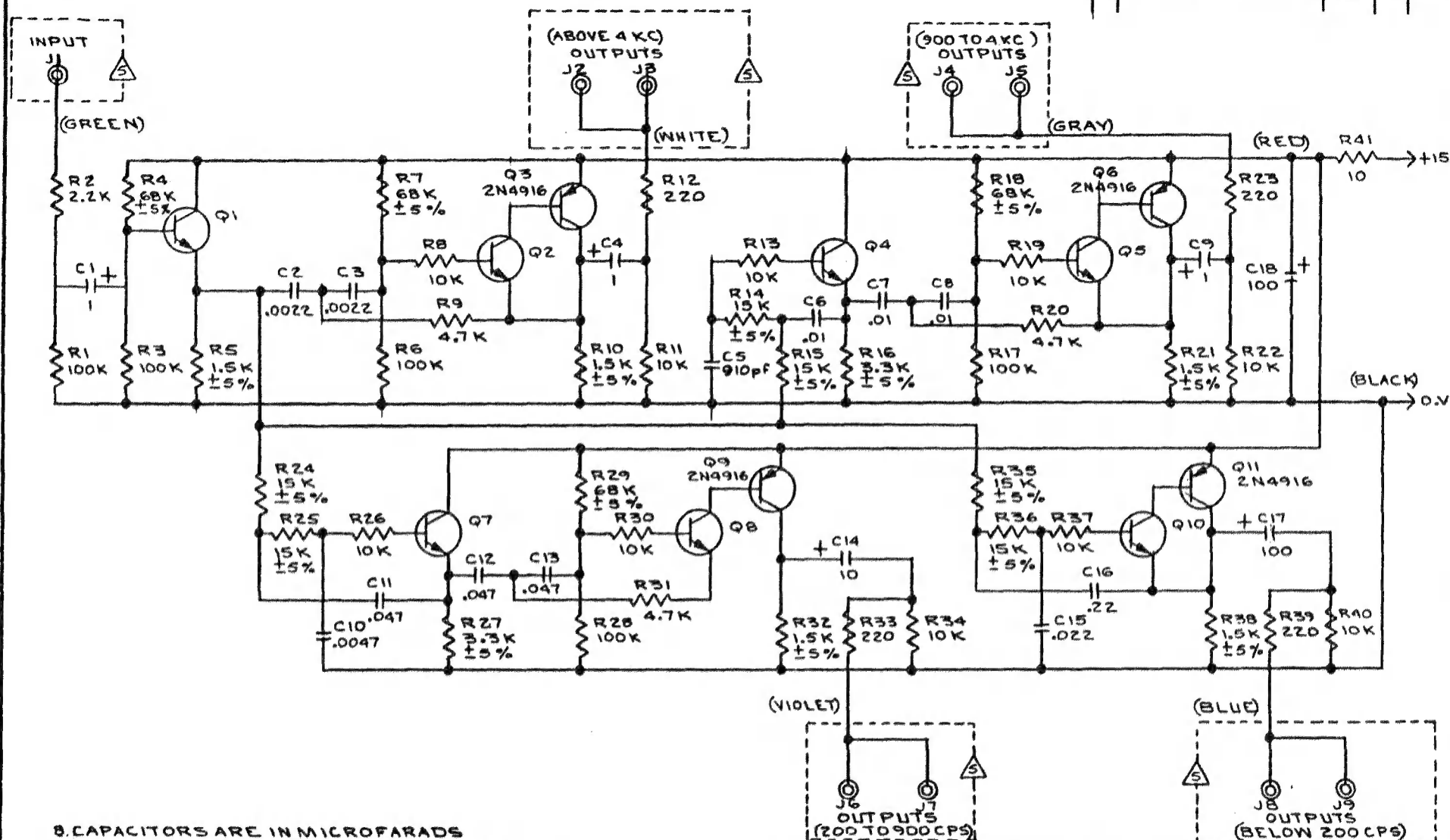


- ▲ TERMINAL STRIP MOUNTED ON BACK OF MODULE
- ▲ (1) REVERSE UNIT IS P/N 084065
- ▲ LAST REFERENCE DESIGNATIONS ARE C88, C90, C92, C94, C96, C98, C100, C102, C104, C106, C108, C110, C112, C114, C116, C118, C120, C122, C124, C126, C128, C130, C132, C134, C136, C138, C140, C142, C144, C146, C148, C150, C152, C154, C156, C158, C160, C162, C164, C166, C168, C170, C172, C174, C176, C178, C180, C182, C184, C186, C188, C190, C192, C194, C196, C198, C200, C202, C204, C206, C208, C210, C212, C214, C216, C218, C220, C222, C224, C226, C228, C230, C232, C234, C236, C238, C240, C242, C244, C246, C248, C250, C252, C254, C256, C258, C260, C262, C264, C266, C268, C270, C272, C274, C276, C278, C280, C282, C284, C286, C288, C290, C292, C294, C296, C298, C300, C302, C304, C306, C308, C310, C312, C314, C316, C318, C320, C322, C324, C326, C328, C330, C332, C334, C336, C338, C340, C342, C344, C346, C348, C350, C352, C354, C356, C358, C360, C362, C364, C366, C368, C370, C372, C374, C376, C378, C380, C382, C384, C386, C388, C390, C392, C394, C396, C398, C400, C402, C404, C406, C408, 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REVISIONS

SYM	DESCRIPTION	REVISED BY	DATE	APPROVED

THIS DOCUMENT CONTAINS INFORMATION OF A PROPRIETARY NATURE AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM CBS INSTRUMENTS.



8. CAPACITORS ARE IN MICROFARADS

7. (REF) P.C BOARD IS CBS P/N 135814 ASSY NO. 135081

6. LAST REFERENCE DESIGNATIONS USED ARE C19, J9, Q11 & R41 (R41 & C18 OUT OF SEQUENCE)

5. COMPONENTS MOUNTED ON FRONT PANEL

4. ALL COMPONENTS MOUNTED ON P.C BOARD EXCEPT AS NOTED

3. TRANSISTORS ARE 2N3565

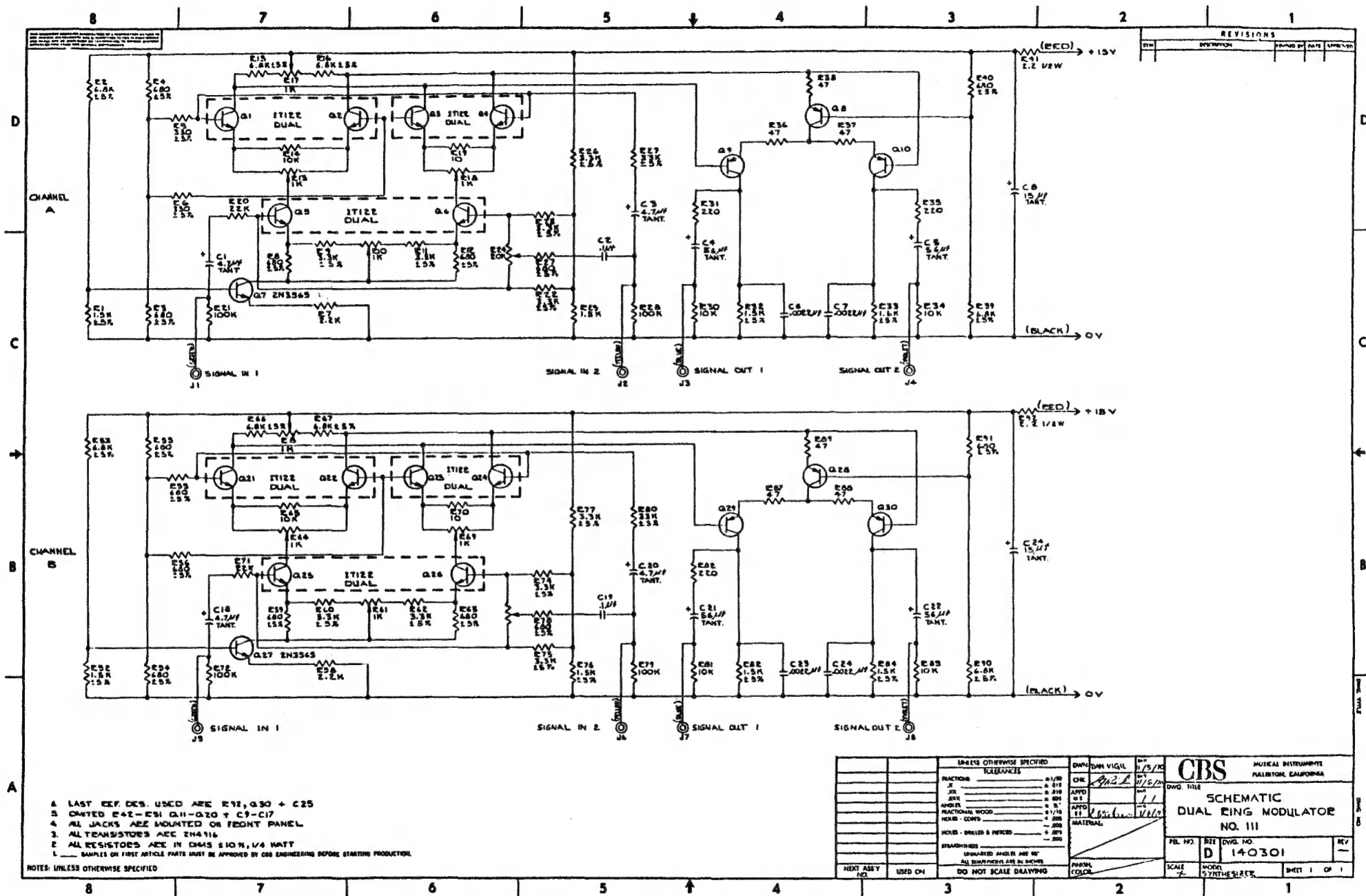
2. RESISTORS IN OHMS $\pm 10\%$, $\frac{1}{4}$ W

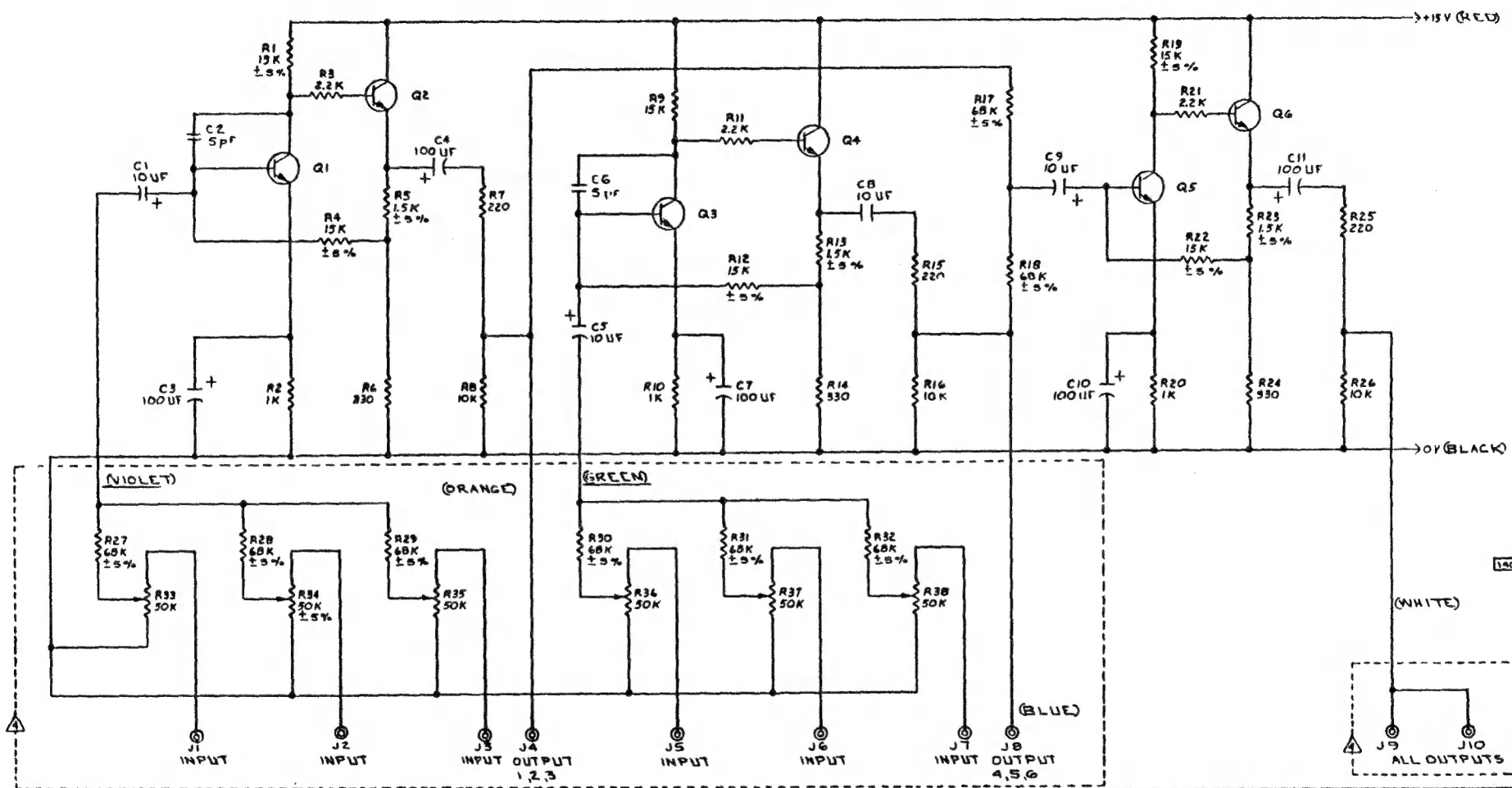
1. SAMPLES ON FIRST ARTICLE PARTS MUST BE APPROVED

BY CBS ENGINEERING BEFORE STARTING PRODUCTION.

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED TOLERANCES		DWN	DATE	CBS MUSICAL INSTRUMENTS FULLERTON, CALIFORNIA	
FRACTIONS	$\pm 1/32$	CHK	DATE	DWG. TITLE SCHEMATIC	
.X	$\pm .015$	APPD	DATE	BANDPASS FILTER	
.XX	$\pm .010$	APPD	DATE	#194	
.XXX	$\pm .005$	APPD	DATE	REL. NO.	SIZE
ANGLES	$\pm 1^\circ$	APPD	DATE	C	140237
FRACTIONAL WOOD	$\pm 1/16$	APPD	DATE	SCALE	MODELSYNTHESIZER
HOLES - CORED	$\pm .005$	FINISH	COLOR	1	#194
HOLES - DRILLED & PIERCED	$\pm .003$			SHEET	1 OF 1
STRAIGHTNESS	$\pm .000$				
UNMARKED ANGLES ARE 90°					
ALL DIMENSIONS ARE IN INCHES					
DO NOT SCALE DRAWING					
NEXT ASSY NO.	USED ON				





REF. R33 THRU R38 ARE GAIN ADJUSTMENT CHANNELS
 LAST REFERENCE DESIGNATIONS USED ARE
 C11, J10, Q6 & R36
 COMPONENTS MOUNTED ON FRONT PANEL
 ALL COMPONENTS MOUNTED ON P.C. BOARD
 EXCEPT AS NOTED
 2 TRANSISTORS ARE 2N3568
 1 RESISTORS ARE 1/4 W 1% W

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED		DWG. NO. 140285		DATE 5-4-70	
TOLERANCES		DWG. TITLE		SIX CHANNEL MIXER	
FRACTIONS		DWG. NO.		140285	
DECIMALS		DATE		5-4-70	
INCHES		DWG. NO.		140285	
MILLIMETERS		DATE		5-4-70	
MATERIAL		DWG. NO.		140285	
FINISH		DATE		5-4-70	
UNFINISHED ANGLES ARE 90°		DWG. NO.		140285	
ALL DIMENSIONS ARE IN INCHES		DATE		5-4-70	
DO NOT SCALE DRAWING		DWG. NO.		140285	
USPO CON		DATE		5-4-70	

